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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/030,027	01/02/2002	Dennis William Mount	Chem Champ *1	9152
	90 10/27/2004	÷	EXAM	INER
Todd S. Parkhurst Holland & Knight LLP			BHAT, NINA NMN	
131 S. Doarborn, 30th Floor			ART UNIT	PAPER NUMBER
Chicago, IL 60603			1764	

DATE MAILED: 10/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/030,027	MOUNT, DENNIS WILLIAM
Office Action Summary	Examiner	Art Unit
	N Rhat	1704
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a eply within the statutory minimum of thin od will apply and will expire SIX (6) MOI ute, cause the application to become Aliling date of this communication, even if	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication
1) Responsive to communication(s) filed on <u>02</u>		
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.	
3) Since this application is in condition for allow	ance except for formal matt	ters, prosecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.
Disposition of Claims		
4a) Of the above claim(s) <u>9-12,17-22,32,33,5</u> 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-8,13-16,23-31,34-51 and 53</u> is/are 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	e rejected.	om consideration.
Application Papers	•	
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptant may not request that any objection to the Replacement drawing sheet(s) including the correct and the control of the section of	cepted or b) objected to be drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the priority document annihilation from the certified copies of the ce	ts have been received. ts have been received in An	plication No
application from the International Burea	u (PCT Rule 17 2(a))	
* See the attached detailed Office action for a list ttachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO(SP/08)	4) Interview Sur Paper No(s)/ 5) Notice of Info	mmary (PTO-413) Mail Date ormal Patent Application (PTO-152)
Paper No(s)/Mail Date	6) 🔲 Other:	·

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DETAILED ACTION

- 1. Applicant's IDS of 5-2-2002 has not been considered fully because the scanning of the original IDS filed is not clear and a new copy of the IDS preferably typed is required. Attached is the copy IDS which has been scanned in the PTO IFW system, there are patent numbers which are indiscernible. Accordingly, the examiner has signed the bottom of the 1449, but has not initialed next to the references. A new legible PTOL 1449 is required.
- 2. Claims 9, 10-12, 17-20, 22, 32, 33, 52 and 54 objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim can not depend on another multiply dependent claims. See MPEP § 608.01(n). Accordingly, the claims 9, 10-12, 17-20, 22, 32-33, 52 and 54 have not been further treated on the merits.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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5. Claims 1-8, 13-16,21,23-31,34-51 and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baumann.

Baumann teach a process and apparatus for recovering a pure solvent from a contaminated solvent, the process feeding contaminated solvent to an evaporator and separating the solvent from the contaminants that have a higher boiling point than the solvent by evaporation in the evaporator to produce a vapor stream of solvent which leaves the top of the evaporator while the high boiling contaminants remain in the liquid state in the bottom of the evaporator, directly feeding the vapor to a condenser and condensing the solvent by partial condensation while the contaminants which have a lower boiling point than the solvent remain in the vapor stated, removing condensed solvent from the bottom of the condenser as a liquid stream and uncondensed vapor containing the lower boiling point contaminates from the top of the condenser as a vapor stream, and regulating the temperature of the vapor stream leaving the condenser and temperature of the condensed solvent liquid stream leaving the condenser independently of each other by means of a closed separate cooling circuit. The coolant which enters the condenser at the same end as the vapor stream leaves the condenser are the same as the condensed liquid solvent stream, by adjusting the temperature of the coolant entering the condenser in accordance with the temperature of the vapor stream leaving the condenser to maintain the temperature a predetermined set point then adjusting the flow rate of the coolant flowing through the condenser.

However, Baumann does use heat-absorbing mass within the condenser.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a solvent recovery system comprising a distillation chamber for the solvent, heating means, direct condensation means and means to direct the vapor from either the condenser or evaporator which further includes a vapor management module which treats the vapor from the condenser, this concept has been fully taught by Baumann, although Baumann does not teach using a heat absorbing means, Baumann does teach that transit of particles from the evaporator to the condenser can be avoided by using a layer of filter material within the evaporator. The filter layer can consist on lone or more wire meshes and a between a metal wool fleece, the filter layer can be self-supporting or can be borne by a support device within the evaporator, the filter of Baumann could be functionally equivalent to the heat absorbing means claimed by applicant therefore rendering applicant's solvent recovery system, include a distillation module, direct condensation module, and vapor management module as claimed obvious to one having ordinary skill in the absent criticality in showing.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hoover teaches a spent solvent purification apparatus.

Drostholm et al. teach an integrated apparatus for distilling batches of contaminated solvents. Gustafsson teach a method for controlling the flow through a distillation apparatus and a device for carrying out the method.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. Bhat whose telephone number is 571-272-1397. The examiner can normally be reached on Monday-Friday, 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

N. Bhat

Primary Examiner Art Unit 1764 Page 5